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Protecting confidential information is a major concern for organizations and individuals alike, who stand to suffer huge losses if private data falls into the wrong hands. One of the primary threats to confidentiality is malicious software on personal ...

2 [Experiences teaching operating systems using virtual platforms and linux](#)[Jason Nieh, Chris Vail](#)February 2005 **SIGCSE '05**: Proceedings of the 36th SIGCSE technical symposium on Computer science education**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (111.45 KB)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 44, Downloads (Overall): 637, Citation Count: 10

Operating system courses teach students much more when they provide hands-on kernel-level project experience with a real operating system. However, enabling a large class of students to do kernel development can be difficult. To address this problem, ...

**Keywords:** computer science education, open-source software, operating systems, virtual machines, virtualizat

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Operating system courses teach students much more when they provide hands-on kernel-level project experience with a real operating system. However, enabling a large class of students to do kernel development can be difficult. To address this problem, ...

**Keywords:** computer science education, open-source software, operating systems, virtual machines, virtualizat4 [Securing distributed storage: challenges, techniques, and systems](#)[Vishal Kher, Yongdae Kim](#)November 2005 **StorageSS '05**: Proceedings of the 2005 ACM workshop on Storage security and survivability**Publisher:** ACM [Request Permissions](#)Full text available: [Pdf](#) (294.61 KB)**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 213, Downloads (Overall): 1932, Citation Count:

The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security ...

**Keywords:** authorization, confidentiality, integrity, intrusion detection, privacy

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5 [Information security underlying transparent computing: Impacts, visions and challenges](#)[Yaoxue Zhang, Laurence T. Yang, Yuezhi Zhou, Wenyuan Kuang](#)April 2010 **Web Intelligence and Agent Systems**, Volume 8 Issue 2**Publisher:** IOS Press**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

The rapid development of computer network technologies and social informationalization has brought many new opportunities and challenges in information security. With improved information and service sharing enjoyed by more and more people, how to strengthen ...

**Keywords:** Meta OS, Transparent computing, extended von Neumann architecture, service sharing, ubiquitous pervasive services



6 [SpyProxy: execution-based detection of malicious web content](#)[Alexander Moshchuk, Tanya Bragin, Damien Deville, Steven D. Gribble, Henry M. Levy](#)August 2007 **SS'07: Proceedings of 16th USENIX Security Symposium on USENIX Security Symposium****Publisher:** USENIX Association**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

This paper explores the use of execution-based Web content analysis to protect users from Internet-borne malware. Many anti-malware tools use signatures to identify malware infections on a user's PC. In contrast, our approach is to render and observe ...

7 [Lithium: virtual machine storage for the cloud](#) [Jacob Gorm Hansen, Eric Jui](#)June 2010 **SoCC '10: Proceedings of the 1st ACM symposium on Cloud computing****Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (964.97 KB)**Bibliometrics:** Downloads (6 Weeks): 105, Downloads (12 Months): 373, Downloads (Overall): 373, Citation Count: 1

To address the limitations of centralized shared storage for cloud computing, we are building Lithium, a distributed storage system designed specifically for virtualization workloads running in large-scale data centers and clouds. Lithium aims to be ...

**Keywords:** cloud computing, file systems, replication, virtual machines

8 [Terra: a virtual machine-based platform for trusted computing](#) [Yael Gertinkai, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh](#)December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles****Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (140.31 KB)**Bibliometrics:** Downloads (6 Weeks): 57, Downloads (12 Months): 470, Downloads (Overall): 3999, Citation Count: 1

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, ...

**Keywords:** VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 59 [Virtual Appliances for Deploying and Maintaining Software](#)[Constantine Sapuntzakis, David Brumley, Ramesh Chandra, Nikolai Zeldovich, Jim Chow, Monica S. Lam, Mendel Rosenblum](#)October 2003 **LISA '03: Proceedings of the 17th USENIX conference on System administration****Publisher:** USENIX Association**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

This paper attempts to address the complexity of system administration by making the labor of applying software updates independent of the number of computers on which the software is run. Complete networks of machines are packaged up as data; we refer ...

**10** [HYDRAsTOR: a Scalable Secondary Storage](#)

[Cezary Dubnicki](#), [Leszek Gryz](#), [Lukasz Heldt](#), [Michał Kaczmarczyk](#), [Wojciech Kilian](#), [Przemysław Strzelczak](#), [Jerzy Szczepkowski](#), [Cristian Ungureanu](#), [Michał Weinicki](#)

February 2009 **FAST '09**: Proceedings of the 7th conference on File and storage technologies

**Publisher**: USENIX Association

**Bibliometrics**: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 6

HYDRAsTOR is a scalable, secondary storage solution aimed at the enterprise market. The system consists of a back-end architected as a grid of storage nodes built around a distributed hash table; and a front-end consist of a layer of access nodes ...

**11** [More Than an Interface---SCSI vs. ATA](#)

[Dave Anderson](#), [Jim Dykes](#), [Erik Niede](#)


March 2003 **FAST '03**: Proceedings of the 2nd USENIX Conference on File and Storage Technologies

**Publisher**: USENIX Association

**Bibliometrics**: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1


This paper sets out to clear up a misconception prominent in the storage community today, that SCSI disc drive and IDE (ATA) disc drives are the same technology internally, and differ only in their external interface and in the suggested retail price. ...

**12** [Scalable virtual machine storage using local disks](#)

 [Jacob Gorm Hansen](#), [Eric Jul](#)

December 2010 **SIGOPS Operating Systems Review**, Volume 44 Issue 4

**Publisher**: ACM

Full text available:  [Pdf](#) (599.80 KB)

**Bibliometrics**: Downloads (6 Weeks): 85, Downloads (12 Months): 140, Downloads (Overall): 140, Citation Count: 6

In virtualized data centers, storage systems have traditionally been treated as black boxes administered separately from the compute nodes. Direct-attached storage is often left unused, to not have VM availability depend on individual hosts. Our work ...

**13** [A light-weight, collaborative temporary file system for clustered Web servers](#)

[Jun Wang](#)

May 2006 **Journal of Parallel and Distributed Computing**, Volume 66 Issue 5


**Publisher**: Academic Press, Inc.

**Bibliometrics**: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 6

Previous studies indicate that I/O could become a performance bottleneck in commodity PC-based cluster Web servers. Current local native file systems do not work well for expensive file I/Os while specialized file systems have a limitation on portability. ...


**Keywords**: Cluster, Collaborative, File system, I/O, Performance, RDMA, Web server

**14** [NANDFS: a flexible flash file system for RAM-constrained systems](#)

 [Aviad Zuck](#), [Oded Barzilay](#), [Sivan Toledo](#)

October 2009 **EMSOFT '09**: Proceedings of the seventh ACM international conference on Embedded software

**Publisher**: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (379.81 KB)

**Bibliometrics**: Downloads (6 Weeks): 12, Downloads (12 Months): 143, Downloads (Overall): 256, Citation Count: 6

NANDFS is a flash file system that exposes a memory-performance tradeoff to system integrators. The file system can be configured to use a large amount of RAM, in which case it delivers excellent performance. In particular, when NANDFS is configured ...

**Keywords**: NAND flash, RAM constrained, file system, flash, page mapping


**15** [GPFS: A Shared-Disk File System for Large Computing Clusters](#)

[Frank Schmuck](#), [Roger Haskin](#)

January 2002 **FAST '02**: Proceedings of the 1st USENIX Conference on File and Storage Technologies

**Publisher**: USENIX Association





**Bibliometrics**: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

**16** [External monitoring of endpoint configuration compliance](#)[Darrell M. Kienzie](#), [Ryan K. Persaud](#), [Matthew C. Elder](#) April 2009**CSII RW '09**: Proceedings of the 5th Annual Workshop on Cyber Security and Information Intelligent Research: Cyber Security and Information Intelligence Challenges and Strategies**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (522.13 KB)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 51, Downloads (Overall): 80, Citation Count: 0

We describe a system for externally monitoring endpoint configuration compliance of an end user system that provides a high assurance monitoring function and data. Typical approaches to monitoring for endpoint configuration compliance rely on the integrity ...

**Keywords:** configuration compliance, security, trusted computing, virtualization

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